TDL Z80 CP/M DISK ASSEMBLER VERSION 2.21 BIOS LOADER TRANSIENT - JADE DD CONTROLLER TITLE PAGE

?	# \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$. 23
ž		×
7	PROGRAM ID: BIOS LOADER TRANSIENT	×
9		×
7	**************************************	·······································
9		×
2	PROPERTY OF: JADE COMPUTER PRODUCTS	×
7	4901 W. ROSECRANS BLVD.	×
7	HAWTHORNE, CALIFORNIA	×
7	90250, U.S.A.	*
ÿ		×
?	**************************************	×
7		×
;	VERSION: 2.2	×
3		×
7	***********************************	×
ÿ	THE BIOS LOADER IS READ INTO THE DCM SECTOR BUFFER	×
7	AFTER THE DCM PROGRAM HAS INITIALIZE. THIS PROGRAM	· Lie
7	THEN READS THE BIOS MODULE (IK) INTO BANK 1. THE	¥
7	COMMAND BLOCK IN DCM IS SET TO INDICATE THE BIOS	×
7	MODULE SIZE AND ITS LOAD ADDRESS. THE BIOS LOADER	*
7	PROGRAM IS GENERATED BY MOVCPM.COM AS THE COLU	×
ő	START LOADER (900-97F HEX).	×

TDL Z80 CP/M DISK ASSEMBLER VERSION 2.21 BIOS LOADER TRANSIENT - JADE DD CONTROLLER EQUATES

	; ******	****	*******	****	*********	
	. F CONTR	ULLE	R PORT ASSIC	INMENTS	*	
	; *****	****	******	******	*****	
0000	BL.STS	W P 1110	000H	; BOARD	STATUS	
0000	BL.CTL		000H		CONTROLS	
0004	WD.CMD	*****	00411		OMMAND REGISTER	
0004	WD.STS	*****	· ' 004H		TATUS REGISTER	
0006	WD.SEC		006H		ECTOR REGISTOR	
0007	WL.DTA	*****	007H		ATA REGISTER	
0010	XP.MTO	*****	010H		TIME OUT	
0040	XP.MTX		040H		TIME EXTEND	
0080	XP.DSH		080H		YNC HOLD	
	AF a DOM	****	COON	ANTHIE C	TING MOLD	
	******	***	*******	******	****	
	5 1791 -	01 0	OMMAND AND M	1ASK.	*	
	; *****	****	****	******	埃拉尔斯特拉斯埃斯斯斯斯特斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	
0080	DC.RUS	***** ****	10000000B	READ S	FOTOR	
0090	DM. RER	***** ****	10011100B		RROR MASK.	
MY 150	LOTTE IXIMIX		100/1110/01	7 1 V L., P. 1 L., L.	(111V11 117711 1	
	; *****	****	*******	****	***	
	SYSTEM ASSIGNMENTS *					
	4. 债务处理处理的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的					
0014	NMBR.K	10 0 0 10 11	20		SYSTEM SIZE IN K.	
0400	LNG.1K		1024		TOTAL BYTES IN 1K.	
15000	CPM.SZ	*****	NMBR.K*	of Kirts of Re	TOTAL SYSTEM BYTES.	
0400	BIOS.S	10000 10000	LNG.1K*		BIOS ALLOCATED SIZE.	
4400					BIOS LOAD ADDRESS.	
THOO	BIOS.A == CPM.SZ-BIOS.S ;BIOS LOAD ADDRE					
	2. 各种各种分泌或型形型性有效性的种种的种种的性性性性性性性性性性性性性性性性性性性性性性性性性性性性性					
	# INTER	NAL.	MEMORY ASSIC	INMENTS	*	
	\$ 经按价价价格的价格的价格的价格的价格的价格的价格的价格的价格的价格的价格的价格的价格					
1000	BANK.0	90017 WOOD	1000H		LOWER BANK ADDRESS.	
0400	BANK.L	***********	0400H		1K BANK LENGTH.	
1400	BANK.1	0000 - 0000 0000 - 0000	BANK.O-	TO ANNO 1	UPPER BANK ADDRESS.	
1370		00.50 1.000 0000 0000	BANK.04		; I/O BLOCK ADDRESS.	
1377	IU.BLK CB.STS	I West	IO.BLK		COMMAND STATUS BYTE.	
1378	CW.LAD	*****	10.BLK		BIOS LOAD ADDR LOC.	
137A	CW.LNG	P	10.BLK		BIOS LOAD LENGTH LOC.	
1380	SEC.BF		BANK.03		SECTOR BUFFER AREA.	
	;*************************************					
					· 杂· · · · · · · · · · · · · · · · · ·	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
0004	SEC. BG		.4		FIRST BIOS SECTOR.	
0008	SEC.NM	*****	\otimes		NUMBER OF SECTORS.	
OOOB	SEC.EX	*****	SEC.BG+	-SEC.NM-1	;LAST BIOS SECTOR.	

TDL Z80 CP/M DISK ASSEMBLER VERSION 2.21 BIOS LOADER TRANSIENT - JADE DD CONTROLLER PROGRAM

```
: ASSEMBLER DIRECTIVES
              "PABS
                    "PHEX
                    . XLINK
1380
                    . LOC
                         SEC. BF
                                     FROGRAM START POINT
              : PAUSE MACRO. ALLOWS 1791 TO DIGEST INSTRUCTIONS! *
              .DEFINE PAUSE = [
                    XTHI
                    XTHL.
                    XTHL
                    XTBL 1
              ; INITIALIZE BIOS READ OPERATION
                                                   ·¥.
              1380
     21 0400
              BEGIN: LXI
                         H, LNG. 1K
                                    BIOS LOAD LENGTH.
                                    ; LOAD LENGTH SET.
1383
     22 137A
                    SHLD
                         CW. LNG
     21 4400
                    LXI
                         H. BIOS. A
                                     BIOS SYSTEM ADDR.
1386
1389
     22 1378
                    SHLD
                         CW.LAD
                                     $LOAD ADDRESS SET.
                         H. BANK. 1
                                     SBIOS LOAD POINT.
1380
     21 1400
                    LXI
              ; SET-UP FOR EACH READ SECTOR COMMAND
              SET NMI VECTOR.
     FD21 13AB
              RD.SEC: LXI
138F
                         Y, RD. TST
1393
     3A 13C7
                    LDA
                         SECTOR
                                     FIRST Blos SECTOR.
     A9
                                     #INVERT (1791-01).
1396
                    ARX
                         WD. SEC
1397
     D306
                    OUT
                                     ;SET 1791 SEC REG.
1399
     3E80
                    MVI
                         A, DC. RDS
                                     FREAD SECTOR CMND.
139B
     A9
                    XRA
                                     ; INVERT (1791-01).
                         WD. CMD
                                     ; ISSUE 1791 COMMAND.
139C
     0304
                    OUT
                                     FALLOW 1791 TO SETTLE.
139E
     E3
                    PAUSE
              ; READ SECTOR OPERATION
              13A2
                         XP. DSH
     DESO
              RD. BYT: IN
                                     ; WAIT FOR DATA.
13A4
     DB07
                    IN
                         WD.DTA
                                     SINPUT INV DATA.
13A6
                         ()
                                     ; INVERT (1791-01).
     49
                    XRA
13A7
                    MOV
                         M.A
                                     STORE DOM BYTE.
     77
13A8
     23
                    IMX
                         -
                                     ; INCREMENT POINTER.
13A9
     18F7
                    JMPR
                         RO. BYT
                                    REPEAT OPERATION.
```

		: CHECK READ S	SECTOR STATUS,	**************************************
13AB 13AD 13AF 13B2 13B4 13B6 13B7	E690 200D 3A 1307 FE0B 280F 3C 32 1307	RD.TST: ANI JRNZ LDA CPI JRZ INR STA	DM.RER ERRORS SECTOR SEC.EX FINISH A SECTOR	FIEST FOR ERRORS. FEROR DETECTED. GET SECTOR NMBR. CHECK IF LAST SEC. GO IF FINISHED. FINCREMENT. FIORE AWAY.
13BA	1803	;*********** ; READ ERROR }	AS BEEN DETECT	******
13BC 13BF 13CO 13C2 13C4	32 1377 AF D300 DB10 76	ERRORS: STA XRA OUT IN HLT	CB.STS A BL.CTL XP.MTO	;DISPLAY ERROR STATUS. ;ZERO A REGISTER. ;DESELECT DRIVE. ;MOTOR OFF! ;TERMINATE.
		; BIOS SECTOR	HAVE BEEN LOAI	**************************************
1305 1306	FB 76	FINISH: EI HLT		; ENABLE INTERRUPTS. ; SHUTDOWN BOARD.
		: SECTOR NUMBE	ER STORAGE	***************************************
1307	04	SECTOR: .BYTE	SEC.BG	SECTOR COUNTER.
		; *********** . END	***********	****************************

TDL Z80 CP/M DISK ASSEMBLER VERSION 2.21 BIOS LOADER TRANSIENT - JADE DD CONTROLLER +++++ SYMBOL TABLE +++++

BANK.0 1000	BANK.1	1400	BANK.L	0400	BEGIN	1380
BIOS.A 4A00	BIOS.S	0400	BL.CTL	0000	BL.STS	0000
CB.STS 1377	CPM.SZ	5000	CW.LAD	1378	CW.LNG	137A
DC.RDS 0080	DM.RER	009C	ERRORS	13BC	FINISH	1305
IO.BLK 1370	LNG.1K	0400	NMBR.K	0014	RD. BYT	13A2
RD.SEC 138F	RD.TST	13AB	SECTOR	1307	SEC.BF	1380
SEC.BG 0004	SEC.EX	OOOB	SEC.NM	0008	WD.CMD	0004
WD.DTA 0007	WD.SEC	0006	WD.STS	0004	XP.DSH	0080
XP.MTO 0010	XF'. MTX	0040				